

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/013433

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 D21H19/54

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 D21H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 591 412 A (SMIT GESIENUS) 6 July 1971 (1971-07-06) example 1 claims 1,3 -----	1, 3-8, 11, 13
X	EP 0 319 989 A (AQUALON CO) 14 June 1989 (1989-06-14) page 4, line 52 - page 5, line 11 page 3, line 30 - line 34 -----	1, 3-5, 7, 8, 11, 13
X	WO 99/64467 A (AVEBE COOP VERKOOP PROD ;KESSELMANS RONALD PETER WILHEL (NL) 16 December 1999 (1999-12-16) page 5, line 3 - line 31 claims 1,3,7,11 ----- -/-	1, 3, 7, 8, 11, 13

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

^o Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

23 February 2005

Date of mailing of the international search report

04/03/2005

Name and mailing address of the ISA
European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Naeslund, P

INTERNATIONAL SEARCH REPORT

International Application No PCT/EP2004/013433

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 682 733 A (SMIT GESIENUS) 8 August 1972 (1972-08-08) claim 1 -----	1,5,7,8, 11,13
X	US 3 746 558 A (NIEUWENHUIS W ET AL) 17 July 1973 (1973-07-17) column 3, line 24 - line 32 example 1 claims 1,3,4 -----	1-3,7,8, 11,13
Y	US 4 387 221 A (TESSLER MARTIN M ET AL) 7 June 1983 (1983-06-07) abstract column 3, line 7 - line 13 column 9, line 29 - column 9, line 37 -----	1-13
X	EP 0 609 994 A (CERESTAR HOLDING BV) 10 August 1994 (1994-08-10) page 3, line 12 - line 36 claims 1,3,5 the whole document -----	1,3-5,7, 8,11,13
Y	DATABASE WPI Section Ch, Week 199847 Derwent Publications Ltd., London, GB; Class A14, AN 1998-551522 XP002273869 & JP 10 245797 A (UNICHIKA CHEM KK) 14 September 1998 (1998-09-14) abstract -----	1-13

INTERNATIONAL SEARCH REPORT

Information on patent family members

 International Application No
 PCT/EP2004/013433

Patent document cited in search report	Publication date		Patent family member(s)	Publication date
US 3591412	A 06-07-1971		BE 706506 A BE 708715 A CH 496851 A DE 1643846 A1 DE 1696265 A1 FI 51723 B FR 1552989 A FR 1567997 A GB 1148023 A GB 1216840 A NL 137240 C NL 6715419 A NL 6717763 A NO 125856 B SE 353556 B US 3654263 A US 3682733 A US 3706584 A MX 3447 E MX 3345 E	18-03-1968 01-07-1968 30-09-1970 05-08-1971 23-12-1971 30-11-1976 10-01-1969 23-05-1969 10-04-1969 23-12-1970 16-05-1968 01-07-1968 13-11-1972 05-02-1973 04-04-1972 08-08-1972 19-12-1972 02-12-1980 03-10-1980
EP 0319989	A 14-06-1989		US 4841040 A CA 1308099 C DE 3851614 D1 DE 3851614 T2 EP 0319989 A2	20-06-1989 29-09-1992 27-10-1994 19-01-1995 14-06-1989
WO 9964467	A 16-12-1999		AT 248861 T AU 4292999 A AU 4293099 A BR 9910990 A CA 2334484 A1 CN 1305499 T DE 69911018 D1 DE 69911018 T2 DK 1090040 T3 EP 1090040 A1 ES 2207304 T3 ID 26849 A JP 2002517567 T WO 9964466 A1 WO 9964467 A1 US 6613152 B1	15-09-2003 30-12-1999 30-12-1999 13-02-2001 16-12-1999 25-07-2001 09-10-2003 08-07-2004 24-11-2003 11-04-2001 16-05-2004 15-02-2001 18-06-2002 16-12-1999 16-12-1999 02-09-2003
US 3682733	A 08-08-1972		BE 706506 A BE 708715 A CH 496851 A DE 1643846 A1 DE 1696265 A1 FI 51723 B FR 1552989 A FR 1567997 A GB 1148023 A GB 1216840 A NL 137240 C NL 6715419 A NL 6717763 A NO 125856 B	18-03-1968 01-07-1968 30-09-1970 05-08-1971 23-12-1971 30-11-1976 10-01-1969 23-05-1969 10-04-1969 23-12-1970 16-05-1968 01-07-1968 13-11-1972

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/013433

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
US 3682733	A	SE 353556	B	05-02-1973
		US 3591412	A	06-07-1971
		US 3654263	A	04-04-1972
		US 3706584	A	19-12-1972
		MX 3447	E	02-12-1980
		MX 3345	E	03-10-1980
US 3746558	A 17-07-1973	GB 1363625	A	14-08-1974
		AT 313048	B	25-01-1974
		BE 769942	A2	16-11-1971
		CA 934904	A1	09-10-1973
		CH 558815	A	14-02-1975
		DE 2134686	A1	20-01-1972
		ES 393212	A1	01-08-1973
		FR 2103680	A5	14-04-1972
		JP 52000055	B	05-01-1977
		NL 7109449	A	18-01-1972
		SE 374117	B	24-02-1975
US 4387221	A 07-06-1983	NONE		
EP 0609994	A 10-08-1994	AT 160192	T	15-11-1997
		CA 2114477	A1	31-07-1994
		DE 69406688	D1	18-12-1997
		DE 69406688	T2	26-03-1998
		EP 0609994	A1	10-08-1994
		ES 2109599	T3	16-01-1998
		FI 940428	A	31-07-1994
		JP 7048402	A	21-02-1995
		US 5399193	A	21-03-1995
JP 10245797	A 14-09-1998	NONE		